

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-222496

(43)Date of publication of application : 17.08.1999

(51)Int.Cl.

C07H 15/04
C12P 19/44

(21)Application number : 10-035434

(71)Applicant : TATSUUMA HONKE BREWING CO
LTD

(22)Date of filing : 02.02.1998

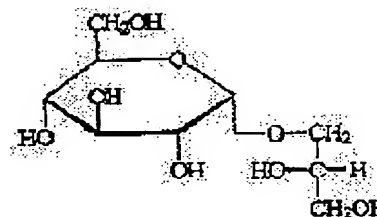
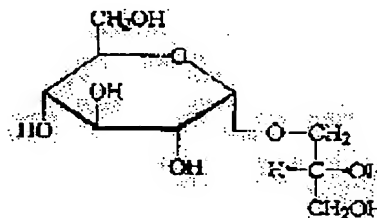
(72)Inventor : IMAMURA TAKESHI
UCHIYAMA HIROBUMI
TAKENAKA FUMITO

(54) ALPHA-D-GLUCOPYRANOSYLGLYCEROL COMPOUNDS, PRODUCTION THEREOF AND USE THEREOF

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain new α -D-glucopyranosylglycerol compounds having clear sweetness, having extremely low browning property and Maillard reactivity, and further having functions such as excellent thermal stability, large digestion resistance, good dental caries resistance and high moisture retainability and useful as foods, chemicals and medicines.

SOLUTION: The objective compounds are expressed by formulas I and II. These compounds are obtained by allowing α -glucosidase originated from a fungus such as Asp. Niger to act on a saccharide preferably comprising maltose, etc., and glycerol preferably in a 10-50 wt./vol.% glycerol solution and subsequently separating and purifying the reaction product preferably by aminocolumn chromatography. The action is preferably performed at a pH of 3-6 at 40° C for 24 hr, when the concentration of the glycerol is, for example, 37.5 wt./vol.%. It is sufficient that the α -glucosidase is added in an amount of 2.5 U per g of the saccharide, when, for example, a 5 wt./vol.% maltose solution is used as the saccharide.



II

LEGAL STATUS

[Date of request for examination]

02.11.1999

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

3569432

[Date of registration]

25.06.2004

[Number of appeal against examiner's decision
of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]